

Claims

- [c1] 1. A flexible tube having a bellows comprising a plurality of convolutes formed in the wall of said tube and extending above the top surface of the tube, said convolutes being spaced from one another in the axial direction of the tube, wherein at least one of said convolutes comprises two opposing bending sections and two restrained elongation sections positioned between the bending sections, and
- wherein the height of the bending sections above the top surface of the tube is greater than the height of the restrained elongation sections above the top surface of the tube.
- [c2] 2. The tube of claim 1, further comprising a transition section positioned between a bending section and a restrained elongation section.
- [c3] 3. The tube of claim 1, wherein the width in the axial direction of the restrained elongation section is less than the width in the axial direction of the bending section.
- [c4] 4. The tube of claim 1, wherein the restrained elongation section includes second convolutes radially spaced apart that connect a restrained elongation section to a bending section.
- [c5] 5. The tube of claim 1, wherein at least two of said convolutes comprises two opposing bending sections and two restrained elongation sections positioned between the bending sections, and
- wherein the length in the radial direction of the elongation sections decreases from a first convolute to a second convolute.
- [c6] 6. The tube of claim 1, wherein said tube comprises a thermoplastic resin.
- [c7] 7. An air duct that includes the tube of claim 1.
- [c8] 8. A coolant pipe that includes the tube of claim 1.
- [c9] 9. A fuel tube that includes the tube of claim 1.
- [c10] 10. A filler neck that includes the tube of claim 1.

[c11] 12. The use of a flexible tube according to claim 1 for air-conduction parts and liquid lines in automobiles or as water lines for washing machines.

12. The use of a flexible tube according to claim 1 for air-conduction parts and liquid lines in automobiles or as water lines for washing machines.